FIRST LADY SEEKS TO LOSE HERSELF

Heads for California Mountains After Taking Lunch in Coffee Shop.

By the Associated Press.

ROSEVILLE, Calif., July 13.—Mrs. Franklin D. Roosevelt is somewhere in the mountains of California or in Western Nevada today, trying to "get away from being the President's wife."

Seeking to lose herself, she was last seen publicly in a coffee shop, eating peaches and cream, toast and coffee. She had arrived in Sacramento by airplane yesterday and newspaper men foliqwed her automobile to the shop, patronized chiefly by railroad men.

Mrs. Roosevelt was accompanied by her friend, Miss Lorena Hickok, who had met her at the airport and had arranged that the President's wife should be taken to a Sacramento hotel which she left through an alley exit within a few minutes.

The First Lady declined to say where she was going. She said she was not in the West to visit her daughter, Mrs. Curtis Dall, who is living in Nevada prior to filing a suit for divorce.

"I want to see California," she said. "I'm just on a vacation. I'll know in a couple of days if I can lose myself and get away from being the President's wife.

"I would like to get away by myself at times to go along quietly. I'm willing to be the President's wife when I join him, but I'd like to get away from that while I'm on this holiday."

She spoke of her recent visit to the Chicago World Fair and how she was followed.

After finishing her light meal the President's wife remained in the coffee shop for a short time. She reached into her bag, got out her knitting needles and worked on a woolen garment for a baby.

When Mrs. Roosevelt was last seen, she was headed for the High Sierra, accompanied by Miss Hickok. The road she took leads toward Nevada. Between Roseville and Nevada is Lake Tahoe, where it was said Miss Hickok has leased a cottage.

NEW PUBLIC AFFAIRS INSTITUTION OPENED

Will Give Laboratory Training in Operations of Government.

Announcement has been made of the establishment of the National Institution of Public Affairs, designed to provide selected students laboratory training in the practical operations of government.

The training will supplement classroom study of political science and will be made available to students chosen from colleges on a scholarship basis, according to Otis T. Wingo, jr., executive secretary of the institution.

On February 4 next year the winners of scholarships to the institution's first program will be brought to Washington for a two-month study and training period. The students will receive a combination of actual experience as administrative assistant to a Government official and directed instruction from the institution's educational director and staff of social science professors.

The advisory board will be composed of Maj. John S. Cohen, Edward A. Filene, Dr. Anson Phelps Stokes, Dr. Mary E. Woolley, Louis Brownlow, Eugene Meyer and William E. Sweet. The Educational Committee will include Dr. Arnold B. Hall, chairman; Dr. Charles E. Clark, Dr. Charles R. Mann, Dean Walter J. Shepard and Dr. Walter M. W. Splawn. Dr. Frederick M. Davenport has been named advisory counsel. The institution has offices at 1001 Fifteenth street.

REJECTION OF REPEAL DECLARED NATURAL

Mississippi and North Dakota Action Due to Failure of Cause, Says Dunford.

By the Associated Press.

Edward B. Dunford, attorney for the Anti-Saloon League, said yesterday rejection of State prohibition repeal by Mississippi and North Dakota "after opportunity to consider its operation elsewhere was natural."

"Promises that the saloon should not return have not been kept in many States," he said in a statement. "The liquor business has been re-established for private profit in others."

"Repealists," Dunford added, "have offered no constructive program as a substitute for prohibition, have sponsored no program of temperance education and made no provision for the compilation of reliable data regarding the social effects of the drink traffic."

More People Buried.

More people are buried in the Borough of Finchley, London, than are alive there.

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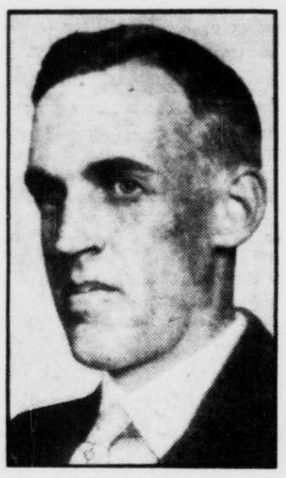
Government Scientists Scout Chances of Tesla's 'Death Ray'

Point Out That All Possible Radiations Are Well Known.



DR. F. L. MOHLER.

Atomic physicists at the Bureau of Standards are taking "death ray" reports with considerable scepticism.

They do not know what Nicola Tesla, New York inventor, specifically has in mind. They do know, however, that only within certain wave length ranges can radiation possibly have an immediate death-dealing effect and that the engineering difficulties of producing, concentrating and projecting such rays in effective quantities are, even theoretically, nearly impossible.

There can be no criticism of the specific claim, they insist, because the announcement was so vague that there is no way of telling what is claimed. The mere assertion of the invention of a "death ray" means nothing without some statement as to where it is placed on the radiation spectrum, and now it is to be projected.

The conservative opinion of physicists, according to Dr. F. L. Mohler, head of the division of atomic physics, is that it is highly improbable that any wave-length of radiation can be made death-dealing on any large scale, quickly, and over any considerable distance.

Spectrum a Closed System.

Obviously no new form of radiation has been discovered. The spectrum is a closed system. It extends in a continuous band from wave lengths of more than five kilometers to wave lengths of a fraction of a billionth of a millimeter. On one side are the electrical or radio waves. On the other are the cosmic rays.

One possibility lies in the band of the so-called Restrahlen, or long heat waves. They range in length from 300 to 50 microns, a micron being a thousandth of a millimeter. If they could be concentrated and projected in sufficient concentration they might burn to a crisp instantly anything with which they came in contact. But this, Bureau of Standards physicists point out, is probably an impossible engineering feat. The longer the wave length the more difficult to concentrate.

The same difficulty is encountered with the infra-red, or short-wave heat rays. It would be impossible, so far as engineers have been able to calculate, to concentrate them with sufficient voltage behind them to do very much damage.

Within the wave length ranges below that of light engineers see the greatest possibility of a "death ray"—if the engineering problem of concentrating and projecting them could be solved. The "death" they would produce would be instantaneous burning. But even theoretically, the possibility of using them for such a purpose does not seem to exist.

Within the wave length range which appears as visible light from red to violet there is no possibility of a "death ray." It has very little penetrating power and a feeble energy content. Men could pass with impunity through all the visible light that could be produced.

Next comes the invisible ultra-violet, heatless and with higher energies in its photons, or light particles. It manifests itself chiefly by producing sunburn. It only penetrates the surface of the skin.

If ultra-violet could be produced and concentrated in sufficient quantities the effect ultimately might be that of "skinning a man alive." There are, in fact, occasional deaths from sunburn. But this is a delayed effect. The victim does not know it is taking place. Considerable time must elapse before death, or even serious disablement, is produced. This hardly could be the basis of a "death ray."

Few Rays Hit.

Then come the x-rays and gamma rays produced in the disintegration process of radium. A sufficient concentration of radiation within this wave length band certainly could kill—at a short distance and by the long process of producing cancerous growths. The hard x-rays and gama rays penetrate the body with tremendous energies and when one of them "hits" a cell it does plenty of damage, as is shown by the destruction of cancer cells by x-ray and radium treatment. But few of them hit.

Within this range, however, is a newly discovered projectile, the possibilities of which are largely unknown. When a heavier element is bombarded with the ions of hydrogen, or with the newly discovered double hydrogen, particles are shot off known as neutrons. The neutron is essentially a collapsed hydrogen atom, in the view of Dr. Henry D. Hubbard of the Bureau of Standards. It consists of one proton, or positively charged particle, combined with one electron, or negatively charged particle. Thus it has no electrical charge. It cannot be deflected in any direction. And, on this borderline between the material and the immaterial the gravitational effect is reduced to nothing.

Here, then, it is pointed out, is a remarkable projectile. It is like a bullet without a trajectory. It will keep on going until it hits. It has, moreover, a detectable mass. If a neutron struck a living cell the results doubtless would be disastrous, to that single cell. Probably they would be much the same, only worse, than those of an X-ray or gamma ray. Nobody has tried bombarding living cells with neutrons and speculation as to the effect is almost purely guess work.

But Is Hardly a Death Ray.

But the neutron is hardly a death ray. One is produced only when the hydrogen ion makes a direct hit on the nucleus of a heavier atom. This happens about one time in a million. And about one neutron in a million could be expected to be hit in turn. Firing a neutron at a cell would be attended with about the same prospects of success as standing on a hill outside Washington and firing a rifle into the city with the hope of killing somebody whose whereabouts the speaker did not know. And the engineering difficulties of producing and concentrating neutrons in sufficient quantities to do any damage, even on a small scale, are now insurmountable.

Beyond the gamma rays are the cosmic waves—the mysterious waves or particles bombarding earth from outer space, carrying with them terrific energies. If a considerable concentration of cosmic rays struck a vital organ, they probably would tear it to pieces—but there is little cosmic radiation, the likelihood of a "hit" is very remote, and its production requires a power far beyond present earthly reach.

The greater the energy in a ray, Bureau of Standards physicists point out, the shorter the wave length, and the shorter the wave length the greater the difficulty of a hit. Thus the very nature of radiation practically precludes the possibility of a "death ray" at wave lengths shorter than those of visible light, they declare.

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PHILADELPHIA, Chester $3.00, Wilmington $2.75	$3.00	July 22. Lv. Wash. 7:55 a.m. and *11:30 a.m. (*Does not stop at Chester)
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	$4.00	July 21st Lv. Wash. 7:55 a.m.
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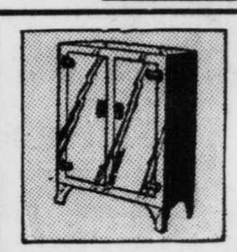

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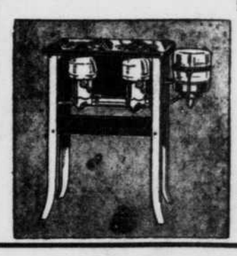

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